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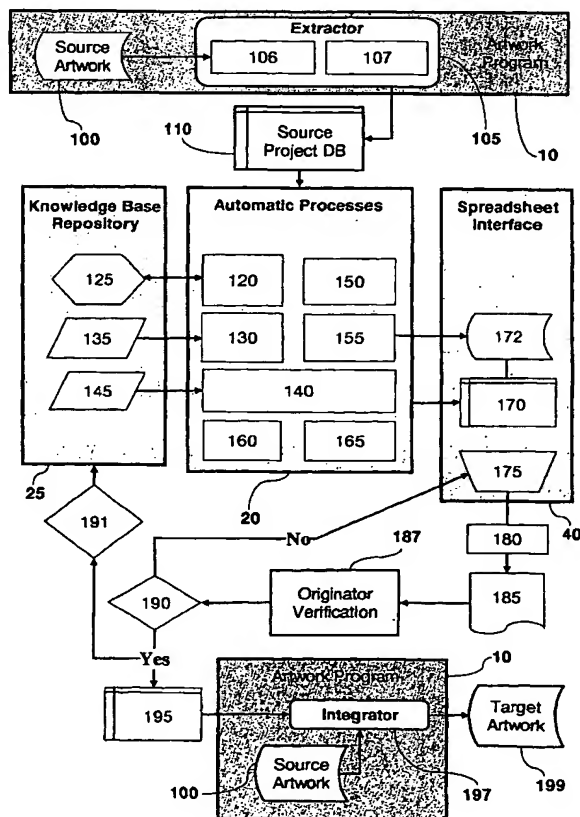
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(54) Title: A METHOD FOR MANIPULATION OF OBJECTS WITHIN ELECTRONIC GRAPHIC DOCUMENTS



(57) Abstract: A method of transforming location based objects, such as text, included in a digital source Artwork file (100), for example a geographical map file, and creating a transformed target Artwork file (199). The method is particularly advantageous in converting geographical maps from one language to another. The method includes tools for extracting the required location based objects, for example text elements, from the source file (100), including all pertaining information, into a first intermediate structured database (110), represented for the user as, for example, a structured table. The required transformations are then operated on the extracted objects, partly manually but also automatically creating a transformed second intermediate database (125), which is subsequently integrated with the source file (100) to create a target file (199), which represents, for example, a new map with translated text on new layers.

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WO 2004/031883 A3

WO 2004/031883 A3



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10/530419

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL03/00801

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G 06 F 7/00

US CL : 707/102

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 707/100, 101, 102.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,666,543 A (GARTLAND) 09 September 1997 (09.09.1997), columns 6-8.	1-31
Y	US 6,339,775 B1 (ZAMANIAN et al) 15 January 2002 (15.01.2002), columns 4-6.	1-31

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means

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document member of the same patent family

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10/530419

PCT/IL2003/000801

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Type Aspect	Layer Name	Font Name	Font Face	Font Size	New TA	New Fo Size	Sample
TA 0001	Waterbody	Times	bolditalic	7			Mediterranean Sea
TA 0002	Capital	Times	plain	7			Rome
TA 0003	City	Times	plain	6			Milan
TA 0004	Islands	Helvetica	plain	6			Sicily
TA 0005	Countries	Palatino	bold	10			ITALY

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FIG. 3

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ID	x position	Y position	new X	new Y	radius	new radius	x length	Y height	new x length	new y height	width h	new width	color	new color	fill	font	size	P/I/U/B	Print Y/N
horizontal	410						315				1.1		0.0.0.						
vertical1	420	15	12					10			1		0.0.0.						
vertical2	430	20	12					5			1		0.0.0.						
vertical3	440	16	12					3			1		0.0.0.			times	10 P		
text	450	15	3										0.0.0.						
420.001				25	12					10			0.0.0.						
420.002				35	12					10			0.0.0.						
420.003				45	12					10			0.0.0.						
420.004				55	12					10			0.0.0.						
420.005				65	12					10			0.0.0.						
420.006				75	12					10			0.0.0.						
430.001				20	12					5			0.0.0.	12.2. 3					
430.002				30	12					5			0.0.0.	12.2. 3					
430.003				40	12					5			0.0.0.	12.2. 3					
430.004				50	12					5			0.0.0.	12.2. 3					
440.001				16	12					3			0.0.0.						
440.002				17	12					3			0.0.0.						
440.003				18	12					3			0.0.0.						
440.004				19	12					3			0.0.0.						

FIG. 8

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